CITY OF



NE 132ND STREET/JUANITA HIGH SCHOOL ACCESS ROAD - INTERSECTION IMPROVEMENTS

DECEMBER 2021

JOB NO. 48-20-PW

TRC 0093

CITY OFFICIALS

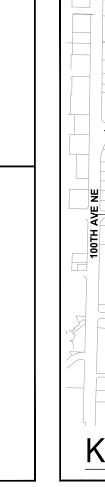
PENNY SWEET
JAY ARNOLD
NEAL BLACK
KELLI CURTIS
AMY FALCONE
TOBY NIXON
JON PASCAL
KURT TRIPLETT
JULIE UNDERWOOD

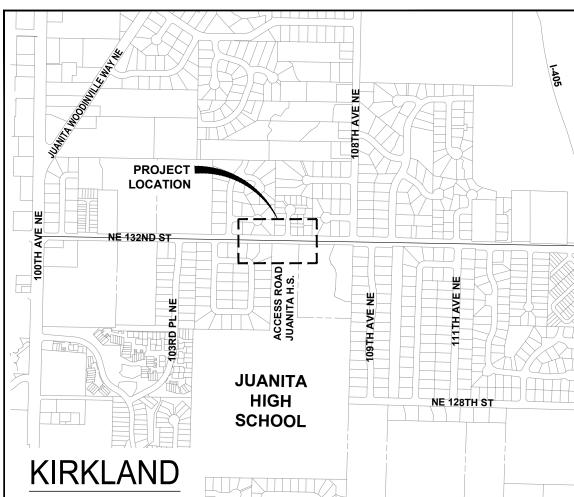
MAYOR
DEPUTY MAYOR
COUNCIL MEMBER
CITY MANAGER
PUBLIC WORKS DIRECTOR
CAPITAL PROJECTS MANAGER

CONTACT PERSONNEL

NAME	<u>AGENCY</u>
SCOTT GONSAR, PE RIK MAYER GLENN AKRAMOFF JOSH PANTZKE DISPATCH DISPATCH DISPATCH JEANNE COLEMAN SHARON SEITZ JOE FORDON CONST.COORDINATOR JEFF MILES KELLY NESBITT JAY SCHWAB EMERGENCY ONE CALL UTILITY LOCATE	COK PROJECT PROJECT INSP COK STREETS & COK UTILITIES COK POLICE DE COK FIRE DEP COK SPILL REPUGET SOUND PUGET SOUND COMCAST CAB KING COUNTY LAKE WASH. SNORTHSHORE ZIPLY FIBER

<u>PHONE</u> **ENGINEER** 425.623.5086 GROUNDS DEPARTMENT 425.587.3909 DEPARTMENT 425.587.3910 425.587.3400 425.864.3650 425.587.3900 DEPARTMENT ARTMENT SPONSE HOTLINE **ENERGY** 425.449.7410 206.643.1908 425.263.5332 ENERGY SCHOOL DISTRICT 425.936.1120 UTILITY DISTRICT 425.398.4403 425.263.4019 800.424.5555



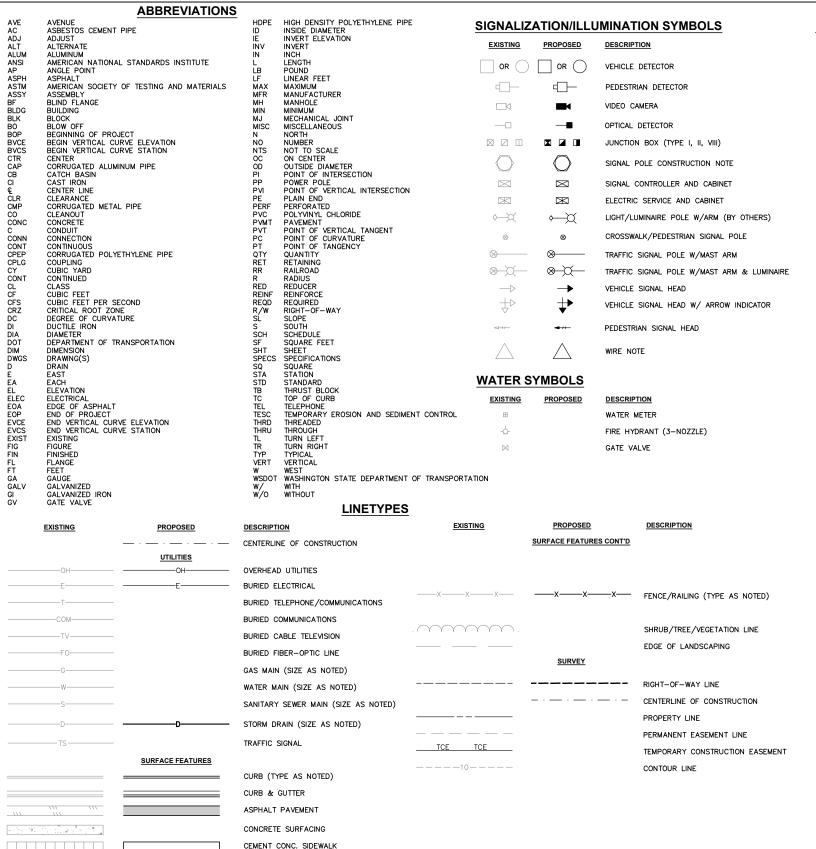




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G&O #18654



CHANNELIZATION SYMBOLS



GAS/POWER/TELEPHONE SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
Ø		GAS VALVE
-0-	-0-	UTILITY POLE (BY OTHERS)
\leftarrow		UTILITY POLE ANCHOR
\boxtimes		UTILITY PEDESTAL

SURVEY SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
Δ		CONTROL POINT
•		MONUMENT (IN CASE)
a		MONUMENT (SURFACE)
-		BENCH MARK

SANITARY/STORM SEWER SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
(1)		STORM DRAIN MANHOLE/TYPE 2 CATCH BASIN (ACTUAL DIMENSION SHOWN FOR PROPOSED)
		STORM DRAIN CATCH BASIN, CONCRETE INLET, OR YARD/AREA DRAIN (ACTUAL DIMENSION SHOWN FOR PROPOSED)
S		SANITARY SEWER MANHOLE (ACTUAL DIMENSION SHOWN FOR PROPOSED)

SURFACE FEATURES/LANDSCAPING

EXISTING	PROPOSED DESCRIPTION	
д	•	SIGN
		ROCK WALL
		GABION WALL
		SHRUB
₩.		TREE (CONIFER)
\odot	\odot	TREE (DECIDUOUS)
BUS		BUS STOP
0		BOLLARD
		SEGMENTAL BLOCK WALL
		MODULAR BLOCK WALL

GENERAL NOTES:

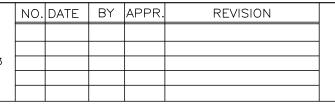
- ALL MATERIALS AND WORKMANSHIP SHALL BE FURNISHED AND SUPPLIED IN ACCORDANCE WITH THE 2020 WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT AND COORDINATE WITH ALL UTILITY COMPANIES IN ORDER TO ASSURE THAT ALL LINES, PIPES, POLES AND OTHER APPURTENANCES ARE PROPERLY LOCATED, SECURED, AND/OR PROTECTED. BURIED UTILITIES (WHERE KNOWN) ARE SHOWN IN THEIR APPROXIMATE LOCATION. THE CONTRACTOR SHALL HAVE UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY EXCAVATION CONSTRUCTION. NOTIFY THE UNDERGROUND UTILITIES LOCATE CENTER: 811.
- 3. THE CONTRACTOR SHALL HAVE A COPY OF THESE PLANS, ANY ADDENDA, CHANGE ORDERS AND THE CONTRACT SPECIFICATIONS ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- THE CONTRACTOR SHALL REPORT ALL SPILLS OR DISCHARGE OF POLLUTANTS WITHIN 24 HOURS TO THE CONTRACTING AGENCY.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL IN ACCORDANCE WITH MUTCD. PRIOR TO DISRUPTION OF ANY TRAFFIC, TRAFFIC CONTROL PLANS SHALL BE PREPARED AND SUBMITTED TO THE CITY FOR APPROVAL. NO WORK SHALL COMMENCE UNTIL ALL APPROVED TRAFFIC CONTROL IS IN PLACE.
- 6. THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER IN THE EVENT OR DISCOVERY OF UNSUITABLE SOILS OR HIGH GROUND WATER CONDITIONS OR DISCREPANCIES FROM
- 7. WHEREVER PLANS REFER TO "SAWCUT" OF ASPHALT CONCRETE PAVEMENT OR OIL MAT, OR CONCRETE SURFACE, THE CONTRACTOR SHALL PERFORM A "NEAT LINE CUT" PER
- 8. CATCH BASINS AND CURB INLETS AT FLOWLINES HAVE BEEN SHOWN IN GENERAL WITH A RELATIVE STATION AND OFFSET. THE INTENT OF THIS PROJECT IS TO LOCATE THE CATCH BASINS AND CURB INLETS IN THE FLOWLINE AT THEIR RESPECTIVE ELEVATIONS.
- 9. THE CONTRACTOR SHALL MAINTAIN A CLEAN LEGIBLE SET OF RECORD DRAWINGS AND PROVIDE A SET TO THE OWNER PRIOR TO DEMOBILIZATION OF THE SITE. SEE SPECIFICATIONS.
- 10. DURING CONSTRUCTION, TAKE SPECIAL CARE TO MARK, PROTECT AND PRESERVE EXISTING PROPERTY CORNER MONUMENTS. MONUMENTS THAT ARE DISTURBED MUST BE RESET BY A LICENSED SURVEYOR. STATE LAW REQUIRES THAT A RECORD OF SURVEY BE FILED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ARRANGE AND PAY FOR DAMAGED MONUMENTS TO BE RESECT. IF HE/SHE FAILS TO DO SO THE CITY WILL DO SO AND DEDUCT THE COST FROM PAYMENTS DUE THE CONTRACTOR. NONE OF THIS WILL BE NECESSARY IF MONUMENTS ARE CLEARLY MARKED AND PRESERVED DURING CONSTRUCTION. IF A MONUMENT IS FOUND TO INTERFERE WITH PLANNED CONSTRUCTION.
- 11. THE CONTRACTOR SHALL FURNISH AND INSTALL 4" TOPSOIL AND SEEDING, FERTILIZING AND MULCHING TO ALL DISTURBED AREAS.

ORDER OF WORK:

- 1. ATTEND PRECONSTRUCTION MEETING.
- PROVIDE SUBMITTALS.
- ISSUE PROCUREMENT SUSPENSION WHEN TRAFFIC SIGNAL SUBMITTALS ARE ACCEPTED.
- RELEASE SUSPENSION
- CALL FOR LOCATES.
- PROVIDE PUBLIC NOTICE TO ABUTTING PROPERTY OWNERS.
- TAKE PRECONSTRUCTION PHOTOS.
- 8. INSTALL TEMPORARY EROSION CONTROL
- POTHOLE EXISTING UTILITIES/PROPOSED STRUCTURES AS NOTED ON PLANS AND SPECIAL PROVISIONS SECTION $2\!-\!09$.
- 10. CONSTRUCT RETAINING WALLS.
- COMPLETE DEMOLITION WORK NECESSARY FOR INSTALLATION OF NEW UTILITY POLES BY PSE, INCLUDING REMOVAL OF SECTIONS OF FENCE, SIDEWALK, AND RETAINING WALL ADJACENT TO NEW POLE LOCATIONS.
- PROVIDE CONSTRUCTION STAKING OF NEW CURB AND SIDEWALK SUFFICIENT FOR INSTALLATION OF NEW UTILITY POLES BY PSE.
- 13. INSTALLATION OF NEW UTILITY POLES BY PSE (WITHIN PROJECT LIMITS).
- 14. CONSTRUCT BURIED UTILITIES.
- PREPARE SUBGRADE AND ROADWAY BASE. INSTALL CURB AND GUTTER, SIDEWALKS AND HMA SURFACING IMPROVEMENTS. HMA WORK IS SUBJECT TO WEATHER AND TEMPERATURE LIMITATIONS IN WSDOT STANDARD SPECIFICATIONS 5-04.3(16).
- 16 COMPLETE REMAINDER OF THE WORK



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NE 132ND STREET / JUANITA HIGH SCHOOL ACCÉSS ROAD

> SYMBOLS LEGEND. ABBREVIATIONS, AND **GENERAL NOTES**

KWB	12/2021
DESIGNED BY:	DATE
KWB	12/2021
DRAWN BY:	DATE
BLS	12/2021
CHECKED BY:	DATE

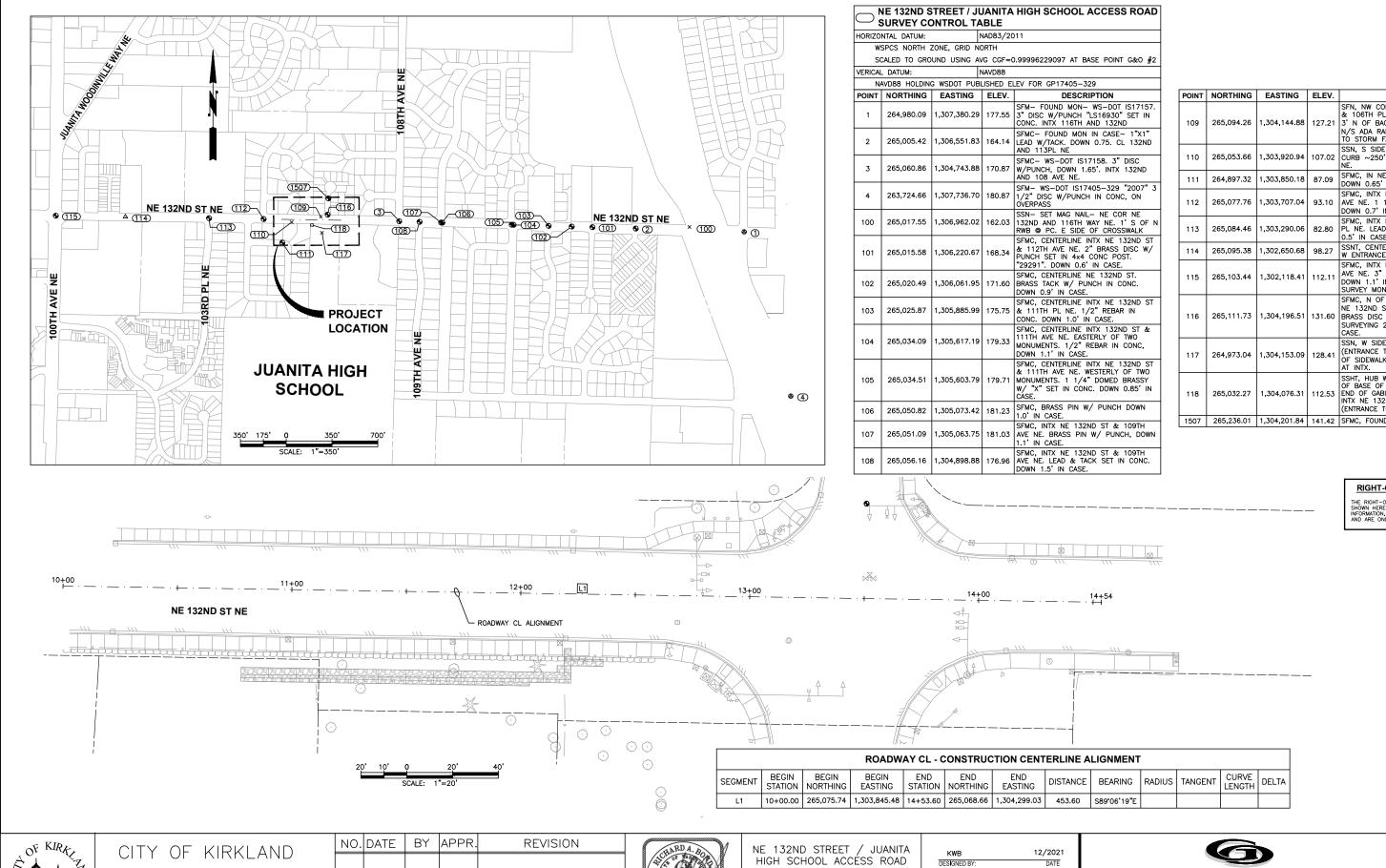


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LG01 13 **NOTED**

FII FNAME

LEGEND



POINT	NORTHING	EASTING	ELEV.	DESCRIPTION
109	265,094.26	1,304,144.88	127.21	SFN, NW CORNER INTX NE 132ND ST & 106TH PL NE. SCREW IN SIDEWALK. 3' N OF BACK OF CURB. 1' W OF N/S ADA RAMP. 4' E OF E SIDE DRWY TO STORM FACILITY.
110	265,053.66	1,303,920.94	107.02	SSN, S SIDE OF NE 132ND ST IN CURB ~250' W OF INTX W/ 106TH PL NE.
111	264,897.32	1,303,850.18	87.09	SFMC, IN NE 131ST ST. LEAD & TACK DOWN 0.65' IN CASE.
112	265,077.76	1,303,707.04	93.10	SFMC, INTX NE 132ND ST & 105TH AVE NE. 1 1/2" BRASSY W/ PUNCH, DOWN 0.7' IN CASE.
113	265,084.46	1,303,290.06	82.80	SFMC, INTX NE 132ND ST & 103RD PL NE. LEAD & TACK IN CONC, DOWN 0.5' IN CASE.
114	265,095.38	1,302,650.68	98.27	SSNT, CENTERLINE NE 132ND ST S OF W ENTRANCE TO 10126 NE 132ND ST.
115	265,103.44	1,302,118.41	112.11	SFMC, INTX NE 132ND ST & 100TH AVE NE. 3" BRASS DISC W/ PUNCH, DOWN 1.1' IN CASE. KING COUNTY SURVEY MONUMENT.
116	265,111.73	1,304,196.51	131.60	SFMC, N OF CROSSWALK N SIDE INTX NE 132ND ST & 106TH PL NE. 2" BRASS DISC W/ PUNCH "ORCA LAND SURVEYING 20719". DOWN 0.25' IN CASE.
117	264,973.04	1,304,153.09	128.41	SSN, W SIDE OF 105TH AVE NE (ENTRANCE TO JHS). 0.5' E OF BACK OF SIDEWALK. ~60' S OF CROSSWALK AT INTX.
118	265,032.27	1,304,076.31	112.53	SSHT, HUB W/ MED MAG NAIL ~10' S OF BASE OF ROCKERY WALL, E OF E END OF GABION BASKET WALL, SO OF INTX NE 132ND ST & 105TH AVE NE (ENTRANCE TO JHS).
1507	265,236.01	1,304,201.84	141.42	SFMC, FOUND MONUMENT CASED

RIGHT-OF-WAY DISCLAIMER

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ASHING TO



SURVEY CONTROL

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CHECKED BY:	DATE

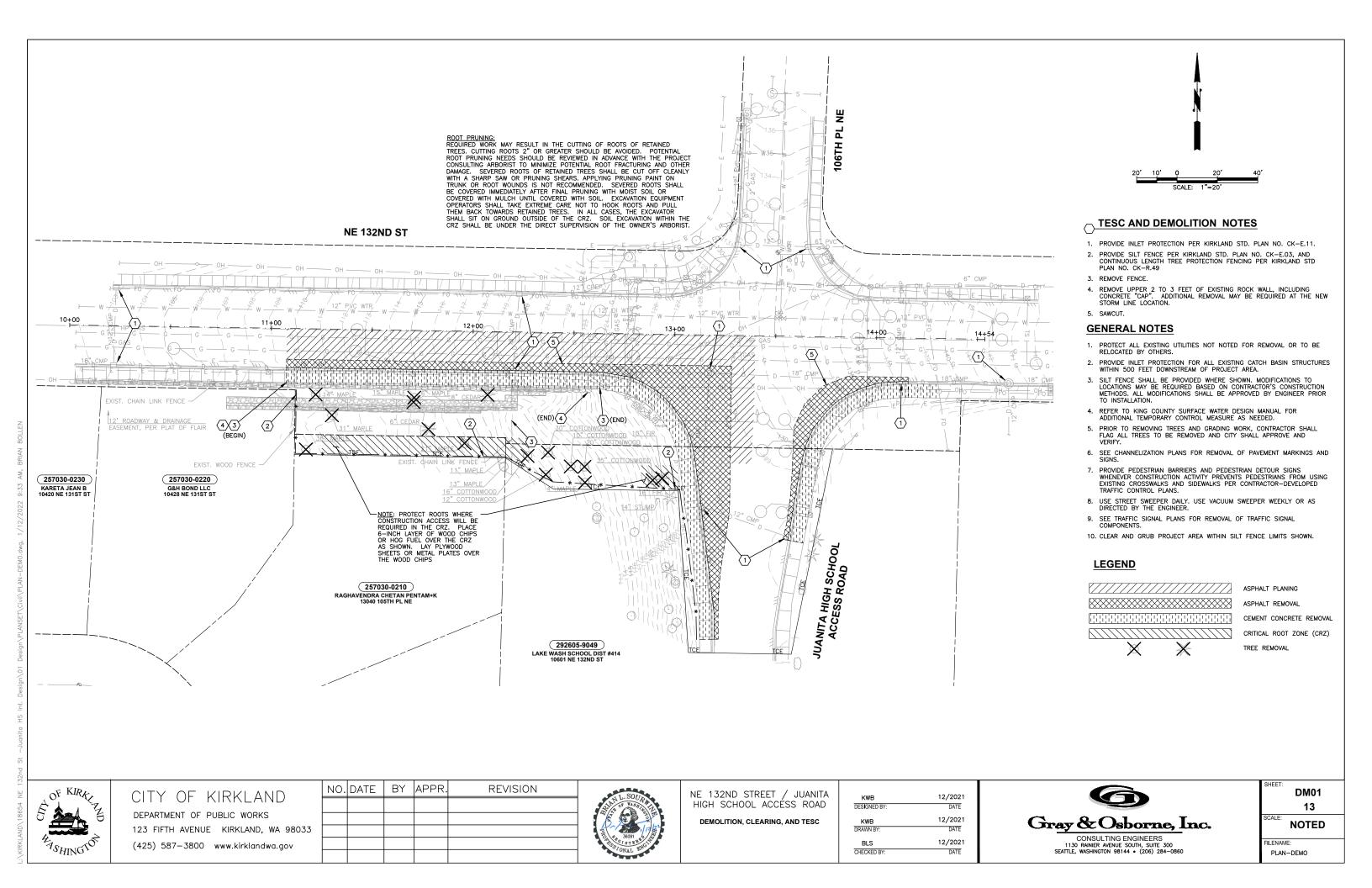


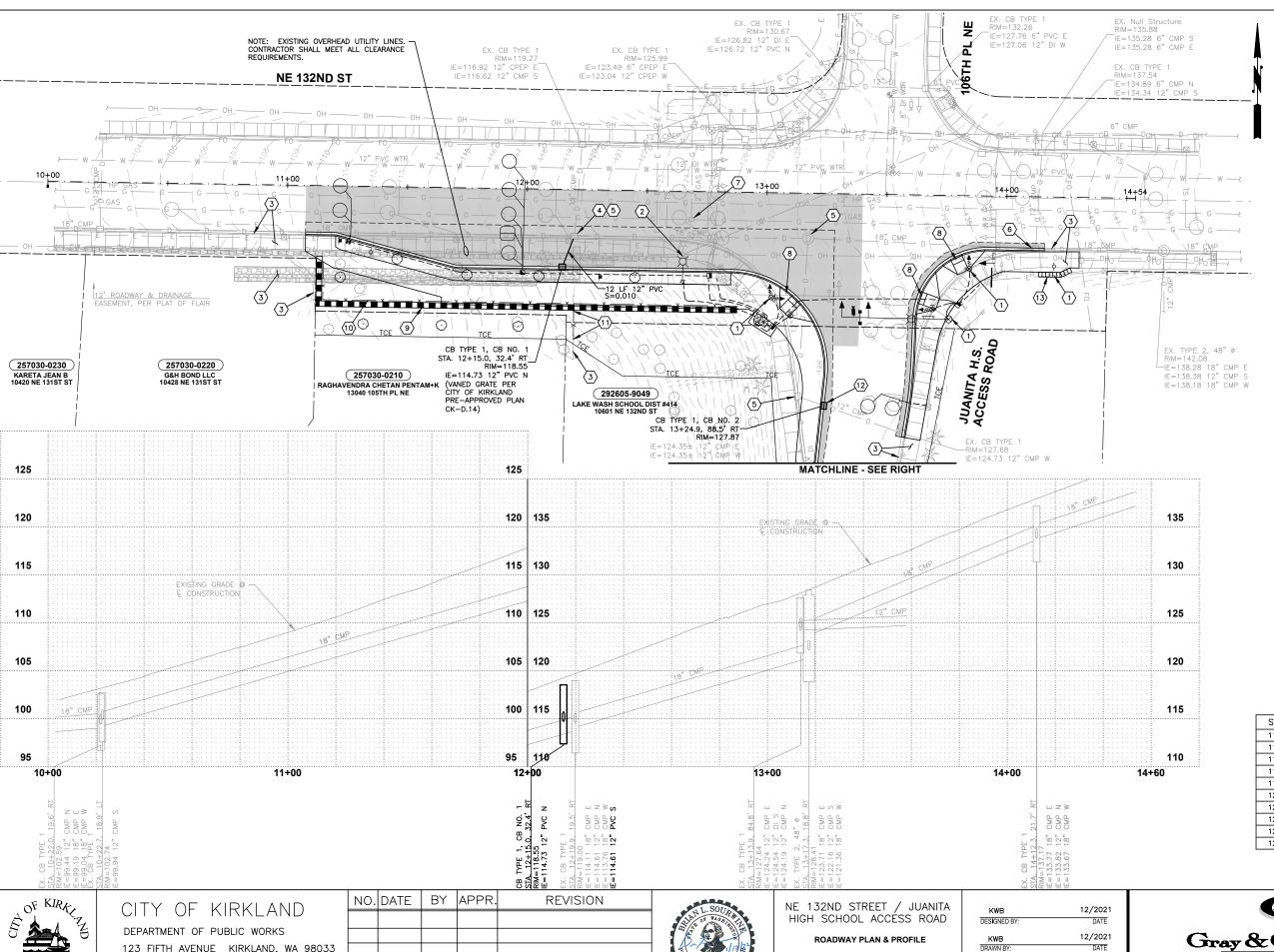
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SC01 13

NOTED

FII FNAME SURVEY_CONTROL





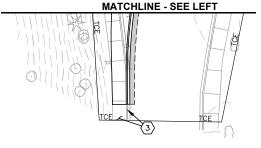
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ROADWAY & STORM DRAINAGE NOTES

- CAUTION: POTENTIAL UTILITY CONFLICT. VERIFY (POTHOLE) EXACT LOCATION AND DEPTH OF EXISTING UTILITY/PROPOSED STRUCTURE. SEE ORDER OF WORK.
- 2. EXISTING UTILITY TO BE REMOVED/RELOCATED BY PUGET SOUND ENERGY (PSE). COORDINATE WORK WITH UTILITY REPRESENTATIVE. SEE GENERAL NOTE 2, SHEET LG01.
- 3. PROTECT EXISTING CURB, SIDEWALK, FENCE, LUMINAIRE, WALL, DURING CONSTRUCTION.
- 4. CONNECT NEW STORM PIPE TO EXISTING CATCH BASIN. CORE DRILL IF KNOCK OUT IS NOT PRESENT. CLEAN EXISTING CATCH BASIN SUMP AND FILL WITH CONCRETE.
- 5. REMOVE AND WASTEHAUL EXISTING FRAME, COVER/GRATE AND ALL RISERS. ADJUST TO GRADE WITH NEW FRAME AND HINGED COVER PER CITY OF KIRKLAND PRE-APPROVED PLAN CK-D.18A AND NEW ROUND RISER(S).
- 6. REMOVE AND WASTEHAUL EXISTING FRAME, GRATE AND ALL RISERS. ADJUST TO GRADE WITH NEW RISERS, FRAME AND VANED GRATE.
- 7. ADJUST EXISTING PUGET SOUND ENERGY GAS VALVE BOX TO GRADE. COORDINATE WORK WITH UTILITY REPRESENTATIVE.
- 8. CONSTRUCT CURB RAMP PER DETAIL(S) SHEET RS02.
- 9. CONSTRUCT SEGMENTAL BLOCK WALL PER DETAIL SHEETS RW01-RW02.
- 10. CONSTRUCT NEW FENCE PER CITY OF KIRKLAND PRE—APPROVED PLAN CK—R.51A AND SIDEWALK WALL CAP WITH FENCE PER DETAIL, SHEET RW02.
- 11. TEMPORARILY REMOVE AND REINSTALL EXISTING CHAIN LINK FENCE PER SPECIAL PROVISIONS 8-12.
- 12. CONNECT EXISTING STORM PIPES TO NEW CATCH BASIN.
- 13. CONSTRUCT MODULAR BLOCK WALL PER DETAIL SHEET RS01.



CURB TABLE

STATION	OFFSET	FLOWLINE ELEV.	DESCRIPTION
11+07.75	20.43 RT	109.08	MATCH EXIST.
11+20.40	20.43 RT	110.11	ANGLE POINT
11+45.48	26.84 RT	112.26	
11+70.56	33.25 RT	114.42	ANGLE POINT
11+75.00	33.25 RT	114.82	
12+00.00	33.25 RT	117.14	
12+25.00	33.25 RT	119.47	
12+50.00	33.25 RT	121.79	
12+75.00	33.25 RT	124.12	
12+85.31	33.25 RT	125.08	POINT OF CURVE

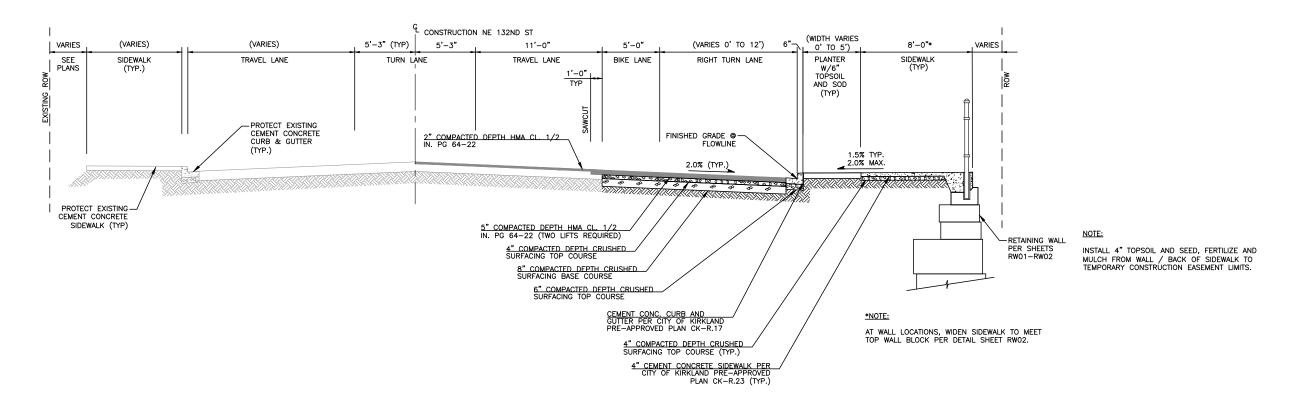
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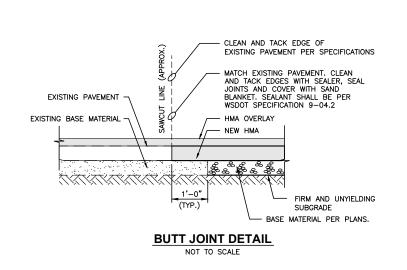
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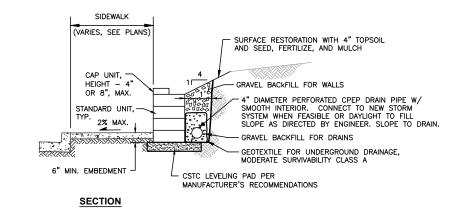
RP01

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TYPICAL CROSS-SECTION: NE 132ND ST APPROX. STATION 11+15 TO APPROX. STATION 12+80





NOTE:

- CONTRACTOR SHALL INSTALL WALL BLOCKS IN "NEAR VERTICAL" CONFIGURATION.
- 2. MAX WALL HEIGHT = 30 INCHES.

MODULAR BLOCK WALL

NOT TO SCALE



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ROADWAY DETAILS

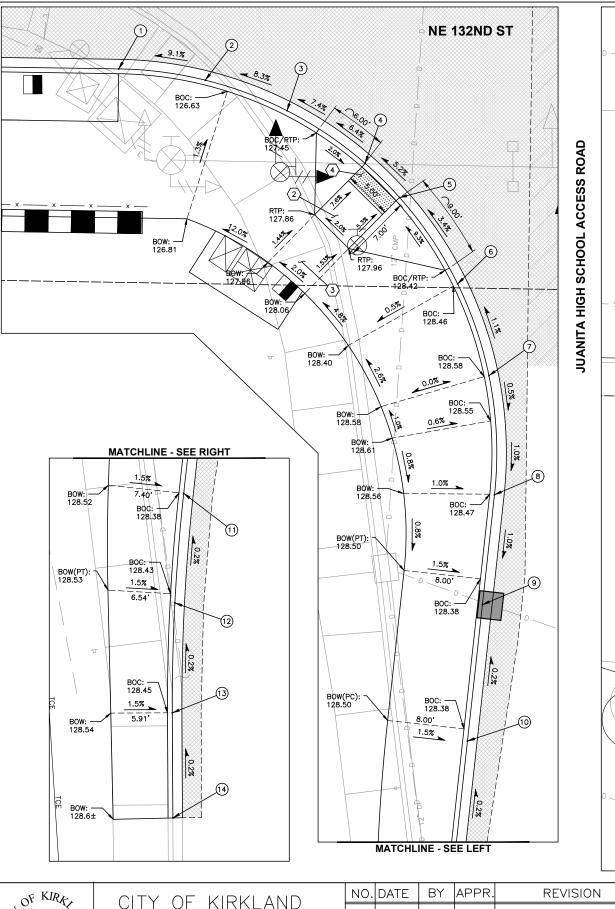
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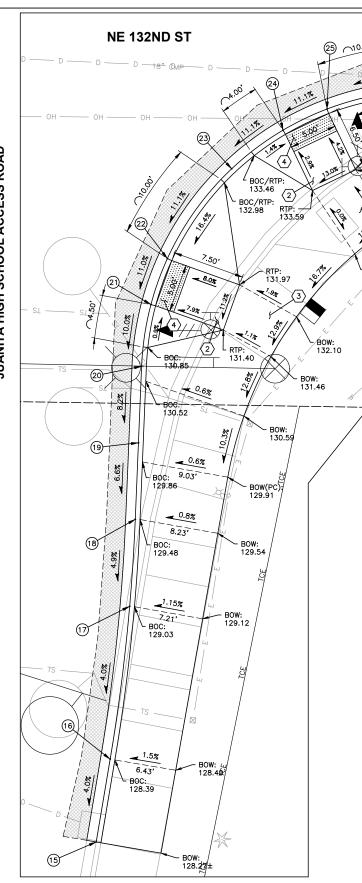


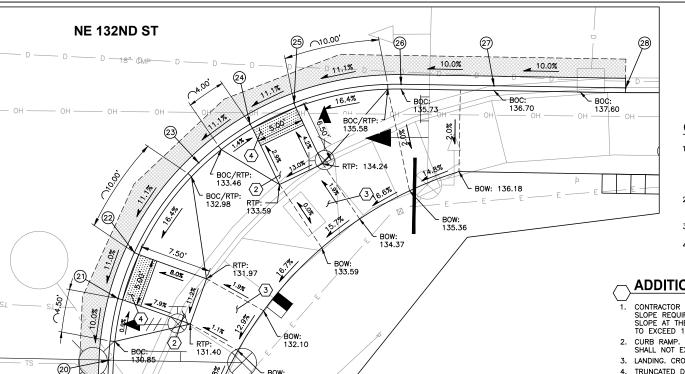
RS01
13
SCALE: NOTED

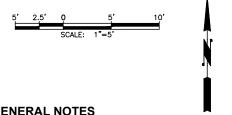
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FILENAME: SECTIONS









GENERAL NOTES

- ONCE CURB STRING LINES AND/OR FORMS HAVE BEEN SET BY THE CONTRACTOR THE CONTRACTING AGENCY WILL REVIEW AND APPROVE THE CURB LINES PRIOR TO POURING. THE CONTRACTOR SHALL ANTICIPATE FIELD ADJUSTMENTS
 WILL BE REQUIRED AT NO ADDITIONAL COST. THE
 CONTRACTOR SHALL STRUCTURE HIS BID ACCORDINGLY.
- 2. SEE CONTRACT PLANS FOR THE CURB DESIGN SPECIFIED. CURB AND GUTTER DETAIL PER CITY OF KIRKLAND PRE-APPROVED PLAN CK-R.17.
- SEE WSDOT STD. PLAN F-40.15 FOR PERPENDICULAR CURB RAMP DETAILS.
- SEE CITY OF KIRKLAND PRE-APPROVED PLAN CK-R.23 FOR CEMENT CONC. SIDEWALK AND JOINTS DETAILS.

ADDITIONAL CURB RAMP NOTES

- CONTRACTOR TO FIELD VERIFY AND ADJUST RAMP LENGTH TO MEET RAMP SLOPE REQUIREMENTS PER DETAILS. THE CURB RAMP MAXIMUM RUNNING SLOPE AT THE BACK OF THE RAMP SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15—FEET.
- CURB RAMP. CROSS SLOPE SHALL NOT EXCEED 2.0%. LONGITUDINAL SLOPE SHALL NOT EXCEED 8.33%.
- 3. LANDING. CROSS SLOPE SHALL NOT EXCEED 2.0%.
- 4. TRUNCATED DOME TEXTILE WARNING SURFACE PER CITY OF KIRKLAND PRE-APPROVED PLAN CK-R.25B. 2' MIN. ALONG DIRECTION OF TRAVEL. TYP. FOR ALL APPLICATIONS.

CURB RETURN AND CURB RAMP TABLE - SOUTHWEST QUADRANT

RAMPS / LANDINGS / SIDEWALK

TYPE	STATION	OFFSET	FLOWLINE ELEV.	DESCRIPTION	CENTER
PC/FL	12+85.31	33.25 RT	125.08		STA. 12+85.31 73.25 RT
FL	12+94.34	34.28 RT	125.91		
FL	13+02.90	37.33 RT	126.66		
RTO/FL	13+11.11	42.69 RT	127.33		
RTO/FL	13+14.77	46.19 RT	127.59	R=40.00 Δ=95° 21' 45"	
FL	13+20.95	55.09 RT	127.96		
FL	13+24.36	64.60 RT	128.08 (HP)		
PT/FL	13+25.13	76.99 RT	127.97		
FL	13+24.06	88.46 RT	127.86 (LP)		
FL	13+22.72	102.69 RT	127.89		
PC/FL	13+21.39	116.91 RT	127.91	l=22.90'	
1/2 Δ/FL	13+20.64	128.33 RT	127.93	R=200.00' Δ=6* 33' 34"	STA. 15+20.51 135.60 RT
PT/FL	13+20.55	139.78 RT	127.95		
FL	13+20.78	150.73 RT	127.97±		
	PC/FL FL FL RTO/FL RTO/FL FL FL FL FL FL PC/FL 1/2 Δ/FL PT/FL	PC/FL 12+85.31 FL 12+94.34 FL 13+02.90 RTO/FL 13+11.11 RTO/FL 13+14.77 FL 13+20.95 FL 13+24.36 PT/FL 13+24.36 FL 13+24.06 FL 13+22.72 PC/FL 13+21.39 1/2 Δ/FL 13+20.64 PT/FL 13+20.55	PC/FL 12+85.31 33.25 RT FL 12+94.34 34.28 RT FL 13+02.90 37.33 RT RTO/FL 13+11.11 42.69 RT RTO/FL 13+14.77 46.19 RT FL 13+20.95 55.09 RT FL 13+24.36 64.60 RT PT/FL 13+25.13 76.99 RT FL 13+22.72 102.69 RT FL 13+24.06 88.46 RT FL 13+22.72 102.69 RT PC/FL 13+21.39 116.91 RT 1/2 Δ/FL 13+20.64 128.33 RT PT/FL 13+20.65 139.78 RT	TYPE STATION OFFSET ELEV. PC/FL 12+85.31 33.25 RT 125.08 FL 12+94.34 34.28 RT 125.91 FL 13+02.90 37.33 RT 126.66 RTO/FL 13+11.11 42.69 RT 127.33 RTO/FL 13+14.77 46.19 RT 127.59 FL 13+24.95 55.09 RT 127.96 FL 13+24.36 64.60 RT 128.08 (HP) PT/FL 13+25.13 76.99 RT 127.97 FL 13+24.06 88.46 RT 127.86 (LP) FL 13+22.72 102.69 RT 127.89 PC/FL 13+21.39 116.91 RT 127.91 1/2 Δ/FL 13+20.64 128.33 RT 127.93 PT/FL 13+20.55 139.78 RT 127.95	TYPE STATION OFFSET ELEV. DESCRIPTION PC/FL 12+85.31 33.25 RT 125.08 FL 12+94.34 34.28 RT 125.91 FL 13+02.90 37.33 RT 126.66 RTO/FL 13+11.11 42.69 RT 127.33 RTO/FL 13+14.77 46.19 RT 127.59 FL 13+20.95 55.09 RT 127.96 FL 13+24.36 64.60 RT 128.08 (HP) PT/FL 13+25.13 76.99 RT 127.97 FL 13+24.06 88.46 RT 127.86 (LP) FL 13+22.72 102.69 RT 127.89 PC/FL 13+21.39 116.91 RT 127.91 L=22.90' R=200.00' A=6' 33' 34"

CURB RETURN AND CURB RAMP TABLE - SOUTHEAST QUADRANT

NUMBER	TYPE	STATION	OFFSET	FLOWLINE ELEV.	DESCRIPTION	CENTER
(15)	FL	13+58.57	101.25 RT	127.60±		
16	PC/FL	13+59.89	92.60 RT	127.89	L=25.14'	
17	FL	13+61.68	76.65 RT	128.53	R=200.00'	STA. 11+62.18 62.42 RT
18	PT/FL	13+62.12	67.58 RT	128.98	Δ=7° 12' 06"	02.12 111
19	FL	13+62.32	59.61 RT	129.50		
20	PC/FL	13+62.53	51.63 RT	130.16		
21	RTO/FL	13+63.40	45.19 RT	130.81	L=46.37' R=30.00' Δ=88' 33' 43"	STA. 13+92.52 52.41 RT
22	RTO/FL	13+65.04	40.37 RT	131.37		
23	1/2 ∆/FL	13+71.59	30.91 RT	132.66		
24)	RTO/FL	13+76.87	26.81 RT	133.40		
25)	RTO/FL	13+81.42	24.53 RT	133.97		
26	PT/FL	13+92.54	22.41 RT	135.23		
27	FL	14+02.22	22.41 RT	136.20		
28)	FL	14+15.93	22.42 RT	137.57±		

ABBREVIATION TABLE

BOC CURB BACK (TOP)
CF CURB FACE
FL FLOW LINE
HP HIGH POINT
LP LOW POINT
PC POINT OF CURVATURE
PCC POINT OF COMPOUND CURVE
PRC POINT OF TANGENCY
RTO RAMP TOE
RTP RAMP TOP
FOW SIDEWALK FRONT FROE

SIDEWALK FRONT EDGE BACK OF SIDEWALK SPOT ELEVATION



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NE 132ND STREET / JUANITA HIGH SCHOOL ACCÉSS ROAD

RAMP DETAILS

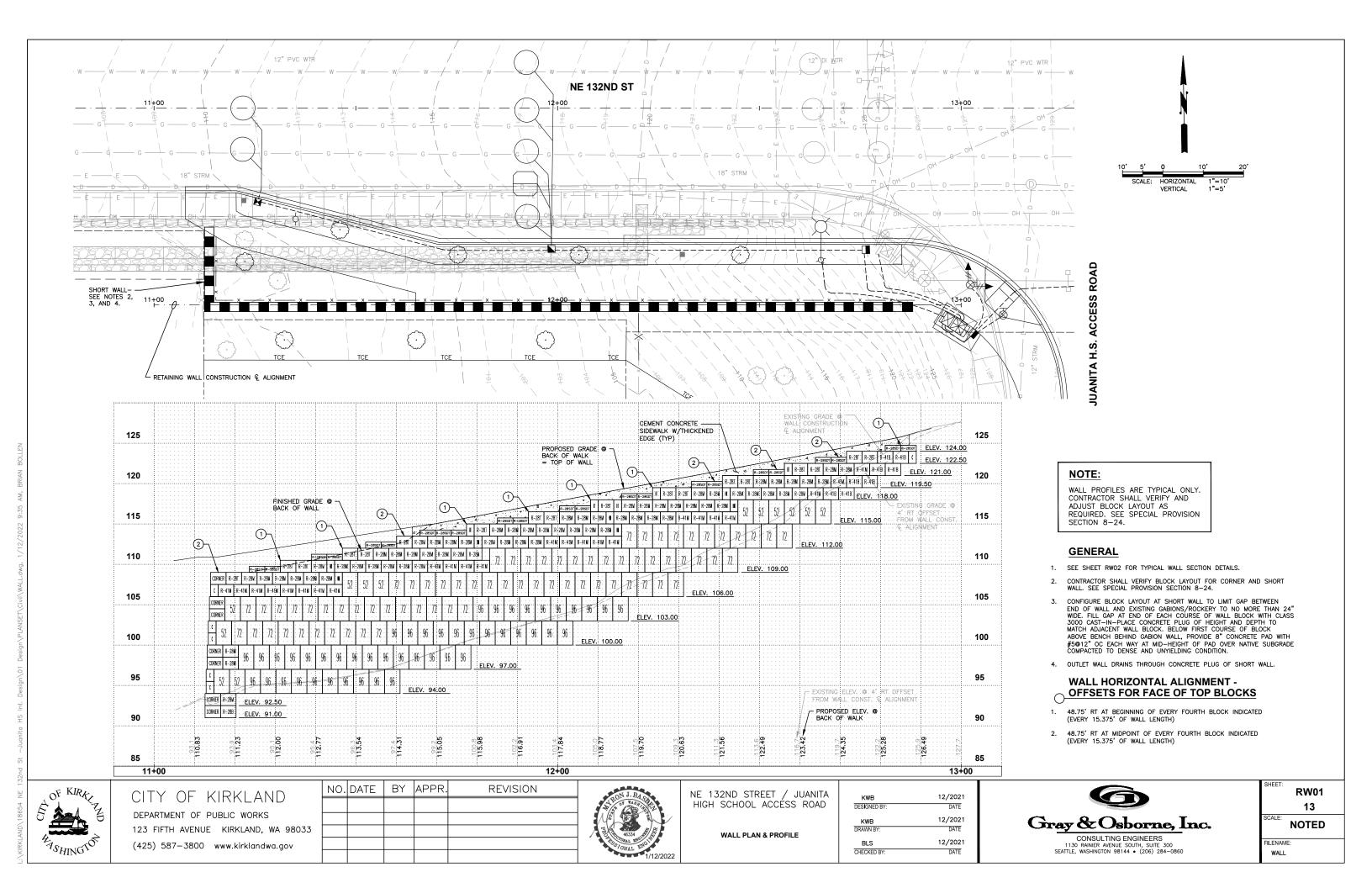
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DRAWN BY:	DATE
BLS	12/2021
CHECKED BY:	DATE

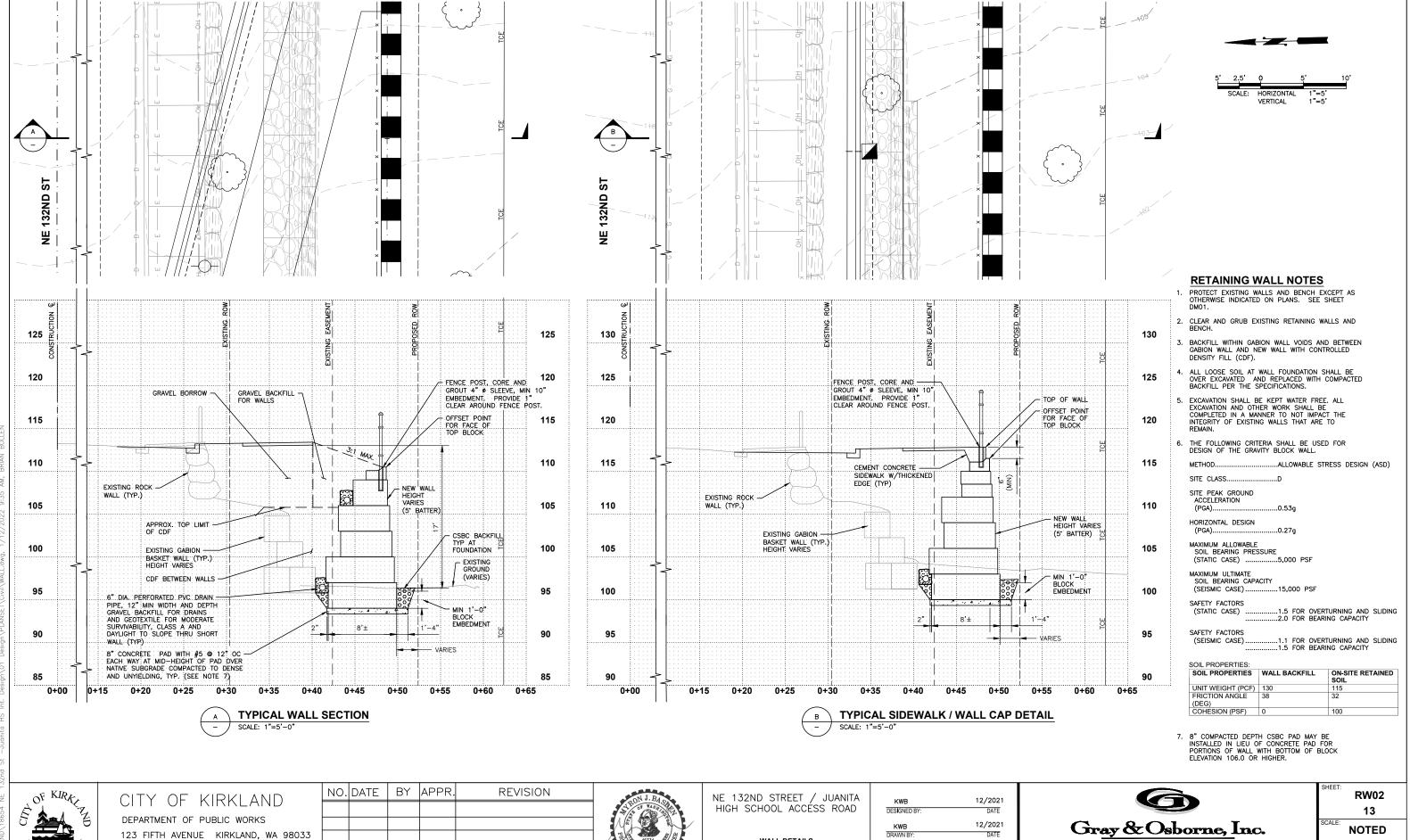


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RD01 13 NOTED

FILENAME RAMP





WALL DETAILS

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FILENAME

WALL

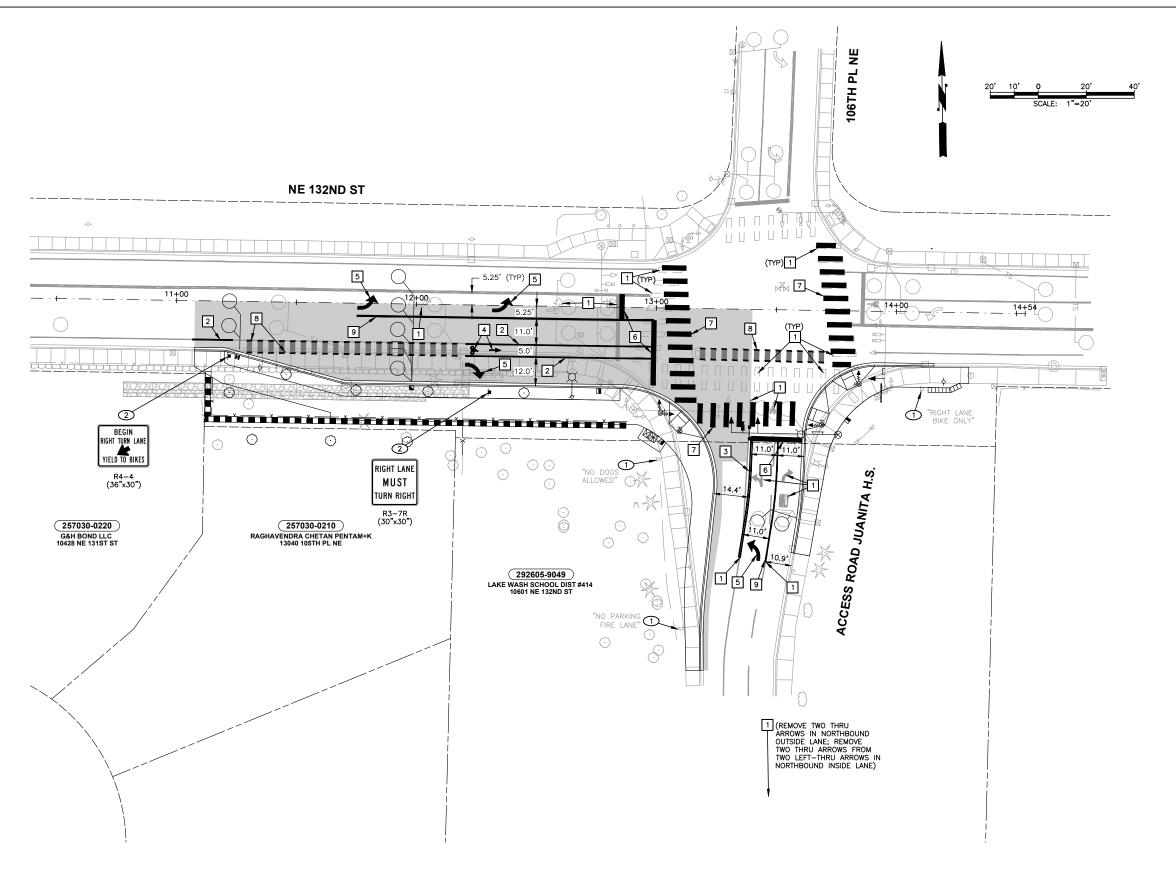
12/2021

DATE

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SIGNING NOTES:

- 1. PROTECT EXISTING SIGN AND POST(S).
- CONTRACTOR SHALL FURNISH AND INSTALL NEW SIGN AND POST, PER CITY OF KIRKLAND PRE-APPROVED PLAN CK-R.43.

CHANNELIZATION NOTES:

- 1. CONTRACTOR SHALL REMOVE EXISTING PAVEMENT MARKINGS/ RPMS.
- 2. PAINTED 6" WIDE EDGE LINE, PER CITY OF KIRKLAND PRE-APPROVED
- 3. PLASTIC DOUBLE YELLOW LINE, PER CITY OF KIRKLAND PRE-APPROVED
- 4. PLASTIC BICYCLE SYMBOL, PER CITY OF KIRKLAND PRE-APPROVED PLAN CK-R.34.
- 5. PLASTIC TRAFFIC ARROW PER CITY OF KIRKLAND PRE-APPROVED PLAN CK-R.30.
- 6. PLASTIC STOP LINE, PER CITY OF KIRKLAND PRE-APPROVED PLAN
- 7. PLASTIC CROSSWALK LINE, PER CITY OF KIRKLAND PRE-APPROVED PLAN CK-R.28.
- 8. INTERSECTION BIKE LANE PAVEMENT MARKING, PER CITY OF KIRKLAND PRE-APPROVED PLAN CK-R.36C. ALL MARKINGS SHALL BE METHYL METHACRYLATE.
- 9. PLASTIC 8" GORE LINE, PER CITY OF KIRKLAND PRE-APPROVED PLAN CK-R.31.
- 10. PLASTIC BICYCLE DETECTION SYMBOL, PER CITY OF KIRKLAND PRE-APPROVED PLAN CK-R.34A.

GENERAL NOTES

- 1. ALL LANE MARKINGS SHALL BE PLACED BASED ON CITY OF KIRKLAND STANDARDS AND THE LATEST MUTCD STANDARDS.
- 2. ALL EXISTING PAVEMENT MARKINGS WITHIN THE PROJECT LIMITS SHALL BE REMOVED PER SPECIAL PROVISION SECTION 8-22.



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NO.DATE BY APPR **REVISION**



NE 132ND STREET / JUANITA HIGH SCHOOL ACCESS ROAD

CHANNELIZATION AND SIGNING PLAN

KWB	12/2021
DESIGNED BY:	DATE
KWB	12/2021
DRAWN BY:	DATE
BLS	12/2021
CHECKED BY:	DATE

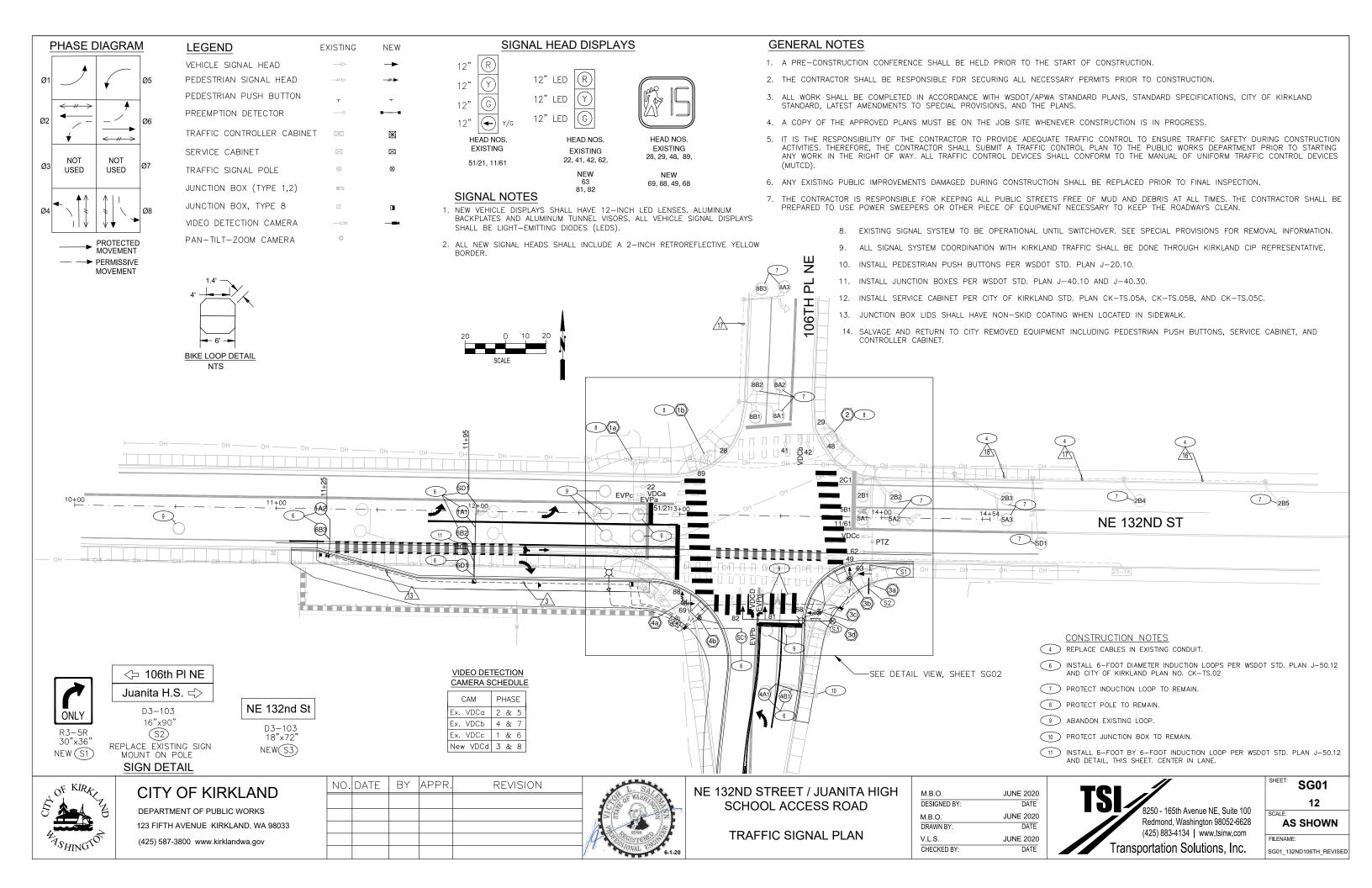


13 NOTED

FII FNAME

CH01

CHANNEL



		WIRING SCHEDULE
RUN NO.	l SIZE	PROPOSED
1	NEW 2"	1-2csh, 1-#8g
2	NEW 2"	2-5c, 1-2csh, 1-#8g
3	NEW 2"	7-2csh, 1-#8g
4	EX 3"	12-2csh lps, 2-3csh, 2-VidDet, 6-5c, 1-7c, 1-#8g, 4-2csh ppb
5	NEW 2"	2-#8 Illum., 1-#8g
6	NEW 2-3"	1-7c veh, 2-5c veh, 2-5c ped, 2-Vid.Det., 1-PTZ, 2-2csh ppb, 2-2csh lp, 1-#8g
	NEW 2"	2-#8 Illum., 1-#8g
	NEW 2"	SPARE
7	NEW 2"	1-5c ped, 1-2csh ppb, 1-#8g
8	EX 2"	1-7c, 2-5c, 1-VidDet, 1-PTZ, 1-#8g
9	NEW 2"	2-#8 Illum., 1-#8g
	NEW 2"	1-5c, 2-3csh, 1-VidDet, 1-#8g
10	NEW 2-3"	1-7c, 2-5c veh, 4-5c ped, 4-2csh ppb, 2-3csh, 4-VidDet, 1-PTZ, 10-2csh lp, 1-#8g
11	NEW 3"	1-7c, 2-5c veh, 1-VidDet, 1-PTZ, 2-2csh, 1-#8g
12	NEW 2"	3-#2/o power
13	NEW 2"	2-2csh lp, 1-#8g
14	NEW 2"	1-2csh lp, 1-#8g
15	EX 2"	3-5c, 2-2csh ppb, 1-VidDet, 1-#8g
16	EX 2"	1-2csh lp, 1-#8g
17	EX 2"	2-2csh lp, 1-#8g
18	EX 2"	3-2csh lp, 1-#8g
19	EX 2"	5-2csh lp, 1-#8g
20	EX 2"	10-2csh lp, 1-#8g
21	EX 3"	3-5c, 2-2csh ppb, 1-VidDet, 10-2csh lp, 1-#8g
22	EX 2"	2-5c, 2-2csh ppb, 1-#8g
23	EX 3"	5-5c, 4-2csh ppb, 1-VidDet, 10-2csh lp, 1-#8g
24	EX 2"	1-7c, 1-5c, 2-3csh, 1-VidDet, 1-#8g

CONSTRUCTION NOTES

- ROUTE CONDUIT TO NEW UTILITY POLE INSTALLED BY PSE. INSTALL 10-FOOT RISER ON POLE FOR SERVICE HOOK-UP. COORDINATE WITH PSE FOR CONNECTION.
- 2 SUPPLY AND INSTALL CONTROLLER CABINET ON SHARED FOUNDATION.
- 3 SUPPLY AND INSTALL 200AMP ELECTRICAL SERVICE CABINET PER COK DETAIL NO. CK-TS.05A.
- 4 REPLACE CABLES IN EXISTING CONDUIT.

REMOVAL / MODIFICATION NOTES

- REMOVE EXISTING CONTROLLER CABINET AND FOUNDATION AFTER NEW SIGNAL IS OPERATIONAL. SALVAGE CABINET AND RETURN TO CITY.
- REMOVE EXISTING ELECTRICAL SERVICE CABINET AND FOUNDATION AFTER NEW SERVICE IS OPERATIONAL. SALVAGE CABINET AND RETURN TO CITY.
- REMOVE EXISTING SIGNAL MASTARM POLE AFTER NEW SIGNAL IS OPERATIONAL. REMOVE FOUNDATION TO 2-FEET BELOW GRADE. SALVAGE PEDESTRIAN PUSH BUTTONS AND RETURN TO CITY.
- 4 LIGHT POLE TO BE REMOVED BY SCHOOL DISTRICT.
- $\ensuremath{\textcircled{5}}\xspace$ maintain existing conduit crossing as spare. Maintain junction at both intersection corners and adjust to grade.
- 6 ADJUST JUNCTION BOX TO GRADE.
- (7) ABANDON LOOP.

EMERGENCY VEHICLE PREEMPTION SCHEDULE

CHANNEL	PHASE	MODEL
(Existing) EVPa	2	
EVPb/EVPd	4 & 8	722
(Existing) EVPc	6	

PEDESTRIAN PUSH BUTTONS [PER CK-TS.01]				
DIRECTION PHASE PUSHBUTTON				
NORTHBOUND	4	B1	B2	
SOUTHBOUND	8	D1	D2	
EASTBOUND	6	C1	C2	
WESTBOUND	2	A1	A2	

EX. (b) (i) (ii) (iii) (

INTERC	INTERCONNECT CONSTRUCTION SEQUENCE			
LOCATION	DESCRIPTION OF WORK			
100TH AVE NE TO APPROX. 108TH AVE NE	INSTALL NEW SMFO CABLE FROM EXISTING TYPE 25TA CABLE VAULT AT APPROX. 108TH AVE NE TO NEW TYPE 25TA CABLE VAULT AT SE CORNER OF 100TH AVE NE.			
APPROX. 108TH AVE NE	SPLICE EXISTING FIBER OPTIC CABLE TO NEW FIBER OPTIC CABLE IN NEW SPLICE CASE IN EXISTING TYPE 25TA CABLE VAULT. ROUTE NEW SMFO CABLE TO PATCH PANEL IN PROPOSED CONTROLLER CABINET AT SW CORNER OF 106TH AVE NE. COIL 50-FEET OF SMFO CABLE IN EXISTING VAULT.			
106TH AVE NE	INTERCEPT EXISTING FIBER OPTIC CONDUIT AND EXTEND TO NEW SIGNAL CONTROLLER CABINET.			
SE CORNER OF 100TH AVE NE	LOCATE AND REPLACE EXISTING TYPE 2 JUNCTION BOX WITH TYPE 25TA CABLE VAULT. SPLICE EXISTING FIBER OPTIC TO NEW FIBER OPTIC CABLE IN SPLICE CASE AND COIL 50-FEET IN VAULT.			

POLE NOTES

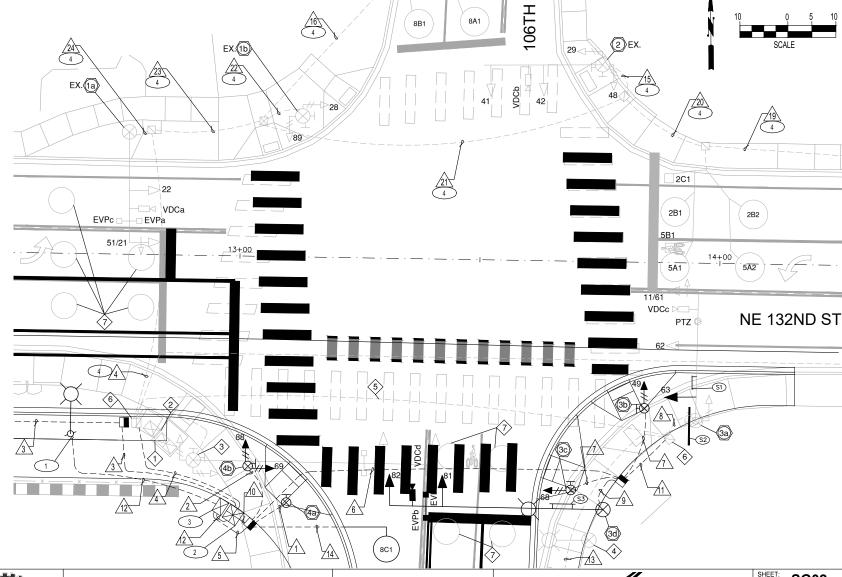
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- REMOVE PED PUSH BUTTONS AND PED SIGNAL HEADS FROM EXISTING POLE. PLUG HOLES. REPLACE STREET NAME SIGN AND MOUNT ON POLE TO ACCOMMODATE NEW EQUIPMENT. INSTALL RIGHT TURN SIGN AND NEW VEHICLE SIGNAL HEAD ON MASTARM.
- PROVIDE AND INSTALL TYPE PS PEDESTRIAN SIGNAL POLE. INSTALL ONE PEDESTRIAN SIGNAL HEAD AND ONE PEDESTRIAN PUSHBUTTON. USE TYPE D TOP MOUNT PER WSDOT STD. PLAN J-75.10 FOR INSTALLATION
- PROVIDE AND INSTALL TYPE PS PEDESTRIAN SIGNAL POLE. INSTALL ONE PEDESTRIAN SIGNAL HEAD AND ONE PEDESTRIAN PUSHBUTTON. USE TYPE D TOP MOUNT PER WSDOT STD. PLAN J-75.10 FOR INSTALLATION.
- PROVIDE AND INSTALL TYPE III TRAFFIC SIGNAL POLE WITH 45FT MASTARM. INSTALL TWO VEHICLE SIGNAL HEADS, ONE OPTICOM PREEMPTION DETECTOR (TYPE M722), ONE VIDEO DETECTION CAMERA, AND ONE STREET NAME SIGN. INSTALL ONE TYPE ACUITY AUTOBAHN AEL ATB2-80B-LEDE10-R3-3K-GR-SH LUMINAIRE WITH 6-FT BRACKET ARM.
- (4a) PROVIDE AND INSTALL TYPE PPB POST WITH ONE PEDESTRIAN PUSHBUTTON.

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PROVIDE AND INSTALL TYPE PS POLE WITH TWO PEDESTRIAN SIGNAL HEADS AND ONE PEDESTRIAN PUSH BUTTON. TOP MOUNT TYPE C TO BE USED FOR PEDESTRIAN SIGNAL HEADS PER WSDOT STD. PLAN J-20.16.





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NE 132ND STREET / JUANITA HIGH SCHOOL ACCESS ROAD

TRAFFIC SIGNAL PLAN

M.B.O.	JUNE 2020
DESIGNED BY:	DATE
M.B.O.	JUNE 2020
DRAWN BY:	DATE
V.L.S. / J.S.E.	JUNE 2020
CHECKED BY:	DATE

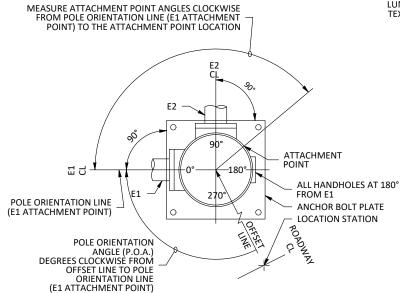
8250 - 165th Avenue NE, Suite 100
Redmond, Washington 98052-6628
(425) 883-4134 | www.tsinw.com
Transportation Solutions, Inc.

SG02
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SCALE:
AS SHOWN

FILENAME: SG01_132ND106TH_REVISEI



- a. VEHICLE DISPLAY b. MAST ARM MTD. SIGN
- c. STREET NAME SIGN
 d. PRE-EMPT DETECTOR
- TRAFFIC SIGN
- LUMINAIRE
- PEDESTRIAN DISPLAY TERMINAL CABINET
- HANDHOLE



POLE ORIENTATION AND ATTACHMENT POINT DETAIL

TYPE E MOUNTS SHALL BE USED FOR PEDESTRIAN DISPLAYS ON TYPE II OR III SIGNAL STANDARDS, WITH THE FOLLOWING EXCEPTION: PEDESTRIAN DISPLAYS MOUNTED ON OCTAGONAL (8 SIDED) SIGNAL STANDARDS AT AN

ANGLE OTHER THAN A 45 DEGREE INCREMENT SHALL USE A TYPE A MOUNT FOR TWO PEDESTRIAN DISPLAYS, OR A TYPE B MOUNT FOR A SINGLE

SIGNAL STANDARD IDENTIFICATION TAG DETAIL

TAG NOTES:

CORROSION RESISTANT METAL TAG SECURED WITH (2) 0.125" RIVETS AS FOLLOWS: POLE SHAFT - LOCATED WITHIN 6" ABOVE HAND HOLE (TYPE II & III).

SIGNAL AND LUMINAIRE MAST ARM (TYPE II & III) - LOCATED WITHIN 6" OF THE LUMINAIRE ARM AND THE POLE SHAFT CONNECTION POINT (TYPE III). TEXT SHALL BE A MINIMUM OF 3/16" HIGH, STAMPED OR EMBOSSED

LUMINAIRE MAST ARM X Y Z (ft³)				
MAST ARM LENGTH	XYZ(ft ³)			
6'	19.8			
8'	26.4			
10'	33.0			
12'	39.6			
14'	46.2			
16'	52.8			

3' - 6" MEASURED FROM SIDEWALK SURFACE

TO CENTER OF

PEDESTRIAN PUSH BUTTON

STANDARD		STANDARD PLAN REFERENCES			
TYPE		POLE	FOUNDATION		ELECTRICAL
			STANDARD	CURB	
PPB	FIXED	J-20.10	J-20.10		J-20.10
PPB	BREAKAWAY	J-20.15	J-20.15	J-20.11	J-20.15
	PS	J-20.16	J-21.10	J-2	J-20.20
	ı	J-21.15	J-21.10		J-21.20
H,	, III, SD	N/A	J-26.10, J-26.15	N/A	N/A

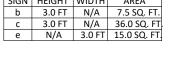
g TYPE PPB TYPE PS TYPE I VEHICLE HEAD PPB POST PED. HEAD STANDARD STANDARD

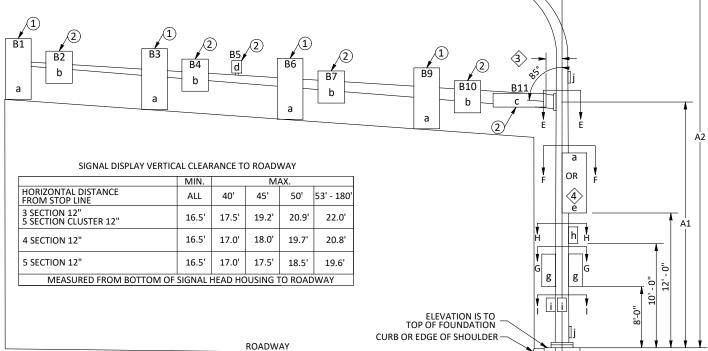
NOTES

- (1) MOUNTING COUPLING INSTALLED AT OFFSET DISTANCE INDICATED IN CHART. FOR TYPE N MOUNTS ONLY, DRILL 1" DIA. HOLE IN MAST ARM AND INSTALL PLASTIC SPLIT BUSHING FOR CABLE ENTRANCE.
- (2) FIELD INSTALLED. SIGN SIZES SHALL NOT EXCEED THE MAXIMUM VALUES LISTED HERE:

SIGN	HEIGHT	WIDTH	AREA
b	3.0 FT	N/A	7.5 SQ. FT.
С	3.0 FT	N/A	36.0 SQ. FT
е	N/A	3.0 FT	15.0 SQ. FT







SIGNAL STANDARD DMS OR VMS IS NOT ALLOWED ON THESE POLES.

TYPE II, III & SD

LIMITS OF VERTICAL CLEARANCE

\$\frac{5}{2} PLACEMENT SHALL BE 2' - 0" MIN. FROM FACE OF CURB OR EDGE OF SHOULDER; 3' - 0" MIN. FROM FACE OF GUARDRAIL; 4' - 0" MIN. FROM CONC. BARRIER TYPE 2 (MEASURED FROM A POINT WHERE THE

BARRIER BASE MEETS THE SHOULDER SURFACE (TOE). MEASUREMENT TAKEN FROM TRAFFIC SIDE OF BARRIER; TO FACE OF POLE)

	SIGNAL STANDARD DETAIL CHART																																															
STD.	FIELD LOCA	TION			POLE TYPE	MOUN	NTING IT (FT)		OFFS	ETS (F	T) (Z)	(POLE	€то⊿	ATTAG	СНМЕ	NT PO	SIGNA INT)	L MAS	ST AR			AD A	REAS (FT ²) (X)(Y)			┥.	MINAIRE ARM (FT)	CALCULATED POLE XYZ (FT ³)	P	OLE A	TTAC	HMENT	POIN	ΓANG	LES (deg.)	FOUNDATIO DESIGN	SOIL BEARIN PRESSUI	G RE		INDATION	ON DEP	TERNA		REMAR	KS
	STATION	OFFSET	LT. RT.	P.O.A.		A1	A2	B1	B2	В3	B4	B5	B6 E	37 E	38 E	B9 B1	10 B11	1 B1	B2	В3	B4	B5	B6 E	7 E	38 I	B9 B1	0 B1	1	С	* *	D	E1	E2	F	G1 G	2 H	1 1	1 I2	XYZ (FT ³)	(PSF)	3' R	D. 3' S	Q. 4' R	D. 3' R	₹D. 4	4' RD.		
(3a)	EXISTING	EX.	х	EX.	EX. III	-	EX.	EX. 23.5	EX. 21.5	EX. 16	-	EX.	5.0 8	3.0	-	- -	- -	EX.	EX. 7.5	EX. 9.2	-	-	9.2 7	.5	-		-		-	690	-	EX. 0°	-	270° R	EM. RE	M. EX	X. RE	M. REM	I. EX.	-			EXI	ISTING				
(3b)	13+84.7	30.4'	х	0°	PS	-	-	-	-	-	-	-	-	-	-	-	- -	-	-	-	-	-	-	-	-		-		-	-	-	-	-	-	0°	- -	27	70° -	-	-	-	-	-	-		-		
(3c)	13+69.6	47.7'	х	0°	PS	-	-	-	-	-	-	-	-	-	-	-	- -	-	-	-	-	-	-	-	-		-		-	-	-	-	-	- 2	270°		. 0)° -	-	-	-	-	-	-	-	-		
(3d)	13+76.4	51.7'	х	270°	III	18FT.	40FT	43.5	-	32.5	-	36.0	-	-	-	-	- 11.0	9.2	-	9.2	-	-	-	-	-		9.0) 6	6FT.	850	0°	0°	-	-	-	13	5° -	- -	900	1,500	8F	T 7F	T 7F	T 8F	·T	7FT		
(4a)	13+10.4	51.2'	х	0°	PPB	-	-	-	-	-	-	-	-	-	-	-	- -	-	-	-	-	-	-	-	-		-		-	-	-	-	-	-	-		. ()° -	-	-	-	-	-	-	-	-		
(4b)	13+02.3	43.7'	х	0°	PS	-	-	-	-	-	-	-	-	-	-	-	- -	-	-	-	-	-	-	-	-		-		-	-	-	-	-	-	0° 9)° -	9	0° -	-	-	-	-	-	-	-	-		



NOTE:

CITY OF KIRKLAND

DEPARTMENT OF PUBLIC WORKS 123 FIFTH AVENUE KIRKLAND, WA 98033

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10.	DATE	BY	APPR.	REVISION	. *
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NE 132ND STREET / JUANITA HIGH SCHOOL ACCESS ROAD

SIGNAL STANDARD DETAIL

M.B.O.	JUNE 2020
DESIGNED BY:	DATE
M.B.O.	JUNE 2020
DRAWN BY:	DATE
V.L.S. / J.S.E.	JUNE 2020
CHECKED BY:	DATE



SG03 14 NO SCALE FILENAME:

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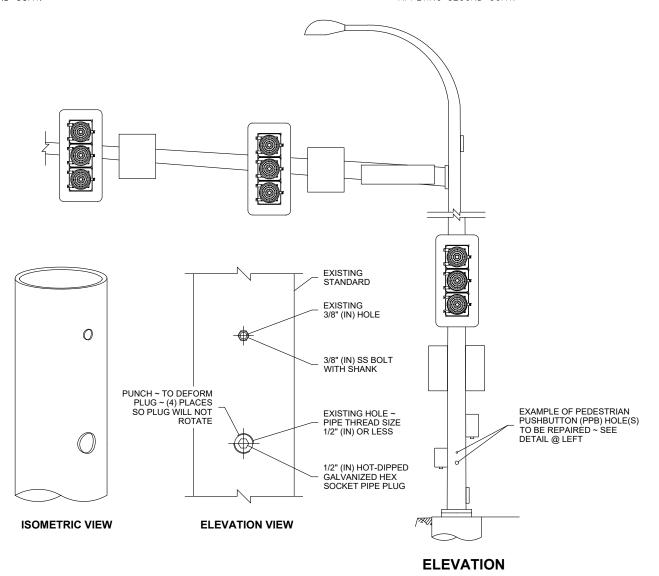
REPAIR PROCEDURE - BOLT HOLE SIZE 1/2" (IN) DIAMETER OR LESS ~ PIPE TRADE SIZE 1/2" (IN) OR LESS

FOR UNC OR UNF THREADS:

- APPLY SILICONE CAULK TO THREADS OF SS BOLT WITH SHANK.
- TIGHTEN SS BOLT UNTIL SHANK IS TIGHT AGAINST STANDARD.
- CUT OFF SS BOLT EVEN WITH STANDARD.
- FILE SS BOLT TO MATCH CONTOUR OF STANDARD.
- TREAT SS BOLT AND SURROUNDING POLE WITH GALVANIZING REPAIR PAINT MEETING THE REQUIREMENT OF STANDARD SPECIFICATION 9-08.1(2)
- APPLY TWO COATS. PAINT SHALL BE DRY BEFORE APPLYING SECOND COAT.

FOR NATIONAL PIPE THREADS:

- APPLY SILICONE CAULK TO THREADS OF HOT-DIPPED GALVANIZED HEX SOCKET PIPE PLUG.
- TIGHTEN PLUG UNTIL FLUSH WITH STANDARD.
- FILE PLUG TO MATCH CONTOUR OF STANDARD.
- FILL HEX SOCKET WITH PAINTABLE SILICONE CAULK.
- TREAT PLUG AND SURROUNDING POLE WITH GALVANIZING REPAIR PAINT MEETING THE REQUIREMENT OF **STANDARD** SPECIFICATION 9-08.1(2).
- APPLY TWO COATS. PAINT SHALL BE DRY BEFORE APPLYING SECOND COAT.

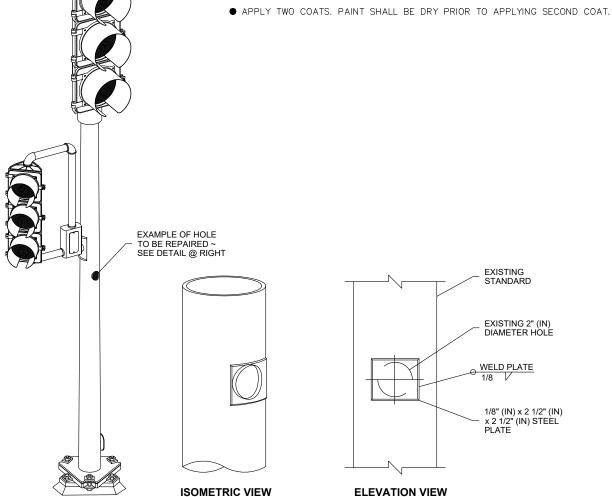


HOLE REPAIR DETAIL

EXAMPLE OF REPAIR FOR PPB LOCATION ~ 1/2" (IN) DIAMETER AND 3/8" (IN) DIAMETER HOLES SHOWN

REPAIR PROCEDURE - MAXIMUM HOLE SIZE 3" (IN) DIAMETER OR LESS

- SUBMITTAL PER STANDARD SPECIFICATION 6-03.3(25)
- MAXIMUM HOLE SIZE 3" (IN) OR LESS IN DIAMETER.
- 1/8" (IN) STEEL PLATE TYPE ASTM A 36 ELECTRODE TYPE XX-70.
- \bullet The plate shall be 1/2" (in) larger than the diameter of the hole to be repaired (1/4" (in) overlap all sides).
- TACK WELD PLATE TO POLE.
- SHAPE PLATE TO MATCH TAPER AND CURVE OF POLE.
- 1/8" (IN) FILLET WELD ALL AROUND.
- CHAMFER (GRIND) EDGE OF PLATE SMOOTH. REMOVE ALL BURRS AND SHARP EDGES.
- TREAT PATCH PLATE AND SURROUNDING POLE WITH GALVANIZING REPAIR PAINT MEETING THE REQUIREMENT OF STANDARD SPECIFICATION 9-08,1(2)



HOLE REPAIR DETAIL

EXAMPLE WITH 2" (IN) DIAMETER HOLE SHOWN



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NE 132ND STREET / JUANITA HIGH SCHOOL ACCESS ROAD

SIGNAL DETAIL SHEET

M.B.O.	JUNE 2020
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